

Amendments to the Specification:

Please replace the paragraph beginning at line 3 of page 1 with the following amended paragraph:

Priority is claimed from provisional applications: Appl.Nos. 06/395,604, filed July 12, 2002, and 06/399,746, filed July 30, 2002. The following copending ~~applications disclose~~ application discloses related subject matter and ~~have~~ has a common assignee: Appl.No. ~~..., filed ... (TI-34475)~~ 10/447,978, filed 05/29/2003.

Please replace the Abstract of the Disclosure with the following amended abstract:

Detection for a MIMO (multiple-input, multiple-output) wireless communications system with symbols iteratively detected in subsets with maximum likelihood hard decisions within subsets. Previously detected subsets of symbols are used to regenerate corresponding input signals for interference cancellation. With a 4-transmitter antenna, 4-receiver antenna system, two subsets of two symbols are possible with the first two symbols detected with zero-forcing or MMSE soft estimates which feed maximum likelihood hard decisions; and the hard decision for the first two symbols are used for interference cancellation followed by zero-forcing or MMSE soft estimates for the second two symbols which then feed further maximum likelihood hard decisions.